

Appl No. 10/647,927  
Response dated December 14, 2005  
Reply to Office Action of Sept. 15, 2005

IN THE DRAWINGS:

Please amend the drawings as follows:

In figure 7B, substitute part "A1" with "A2" and substitute part "A2" with "A1".

A replacement sheet of drawing sheet containing figure 2 is submitted herewith.

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**REMARKS**

This is a response to the Office Action dated September 15, 2005. There are presently 35 claims pending in the case. Claims 17-20 and 31-35 are allowed. Claims 1, 2, 4-8, 10-15, 21-23, 26 and 28 are rejected. Claims 3, 9, 16, 24, 25, 27, 29 and 30 are objected to. Applicant is submitting this response in order to place the case in condition for allowance.

This response is submitted in response to the office action dated July 14, 2005. Because the response is submitted by an applicant within the affected Hurricane Katrina area, the period for response was reset from September 15, 2005 to December 15, 2005. This response is being submitted to place the claims in condition for allowance.

Applicant has elected to cancel all pending claims 1-35, without prejudice, and add new claims 36 through 59. The Examiner had allowed certain claims, namely claims 17-20 and 31-35. The new claims which correspond to these claims are 51 through 54 and 55 through 59. Original claims 21 through 30 have been cancelled. Because these claims were allowed as filed, this response will address those claims as rejected.

Below is new claim 36, as it currently reads, with the parts numbers assigned to the elements in the claim. This is evidence that no new matter is being inserted into the application through this new set of claims.

36. (New) A jarring apparatus that multiplies tension to provide greater overpull, the apparatus comprising:

- a. an outer tube (64);
- b. an inner tube (90) moveable within the outer tube, attached at a first upper end to the pipe string;
- c. a third tube (70) between the outer and inner tubes that is engaged to the stuck object;
- d. a compressible energizing fluid (65) within a space between the inner and third tubes when the inner tube is raised to a first up cocked position; and
- e. a first differential surface area (A1, 95) between the inner tube and the third tube and a second differential surface area (A2, 79) between the outer tube and inner tube, so that

Appl No. 10/647,927

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when tension is applied to the inner tube, the tension is multiplied to the outer tube by virtue of the compressible fluid acting on the differential areas, thereby allowing the outer tube to deliver a multiplied jarring force to the stuck object.

All other new independent claims being submitted have these same elements, which were present in the patent application as filed.

Applicant will now address the merits of the office action.

First, claims 3, 9, 16, 24, 25, 27-29 and 30 were objected to for failing to comply with Section 112 of the patent statute. The new claims which correspond to these claims have been reviewed and the changes made to comply with the Section 112 requirements. The applicant wishes to thank the Examiner for pointing out these objectional deficiencies.

Turning to the claims rejected under prior art, the Examiner rejected claims 1, 2, 4-8, 10-15, 21-23, 26 and 28 under 35 USC 102(b) as being anticipated by a patent to Chancey et al. (5,564,353).

In addition, claims 1, 2, 4-8, 10-12, 14, 15, 21-23, 26 and 28 were rejected under 35 USC 102(b) as being anticipated by a patent to Evans (4,844,183).

Applicant acknowledges the rejection of the examiner and respectfully traverses.

In addition to the claims amended to overcome the Section 112 objections, applicant has submitted new independent claims 36, 41, 46 for the reasons as will be discussed below.

New independent claims 36, 41, and 46 have been confected to claim the specific operation of the present invention. Unlike the prior art, the present invention includes a third tube between the outer and inner tubes as claimed. The first energizing fluid is compressible within a space between the inner and third tubes, when the inner tube is raised and cocked. Unlike the prior art, the three tubes define two differential surface areas as claimed, so that the tension is multiplied to the outer tube by virtue of the compressible fluid acting on the differential areas, allowing the outer tube to deliver the multiplied jarring force to the stuck object.

In a review of both the Chancey et al and Evans references, the jarring apparatus of Chancey et al and Evans both include an outer tube, an inner tube and an energizing fluid compressible within the space between the inner and outer tubes, but cited differential surface

Appl No. 10/647,927

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areas that are located on the exterior of the designs, and are only affected by hydrostatic pressure, not by the energizing fluid within the fluid space between the inner and outer tube. There is no third tube which as the combination would define two internal fluid differential surface areas that react against the energizing fluid, which operates to multiply the tension. The prior art patents to Chancey et al and Evans, having only an inner and outer tube, in combination, can only define one fluid differential area, which do not carry out the same multiplying function as with three tubes.

Applicant would assert that these three new independent claims are allowable over the art cited, and likewise the dependent claims which depend from those claims are allowable. All other new claims are claims which correspond to claims which have already been allowed by the Examiner.

Applicant would request re-examination of the claims and a Notice of Allowance. Applicant respectfully submits that the application is in condition for allowance. A Notice of Allowance is hereby respectfully requested.

Should the Examiner feel that a telephone conference would advance the prosecution of this application, he is encouraged to contact the undersigned at the telephone number listed below.

Applicant respectfully petitions the Commissioner for any extension of time necessary to render this paper timely.

Please charge any additional fees due or credit any overpayment to Deposit Account No. 50-0694.

Respectfully submitted,

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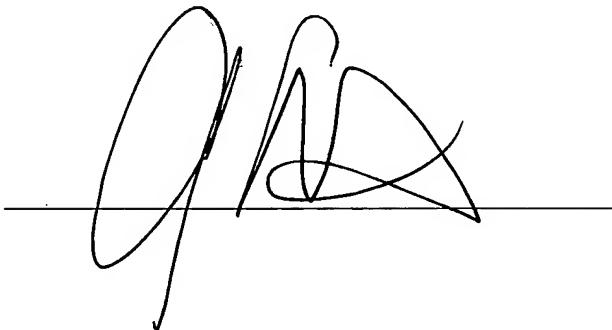
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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 14<sup>th</sup> day of December, 2005.

A handwritten signature consisting of several loops and lines, appearing to be a stylized 'G' or a similar character, is written over a horizontal line.

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